

IN THE CLAIMS:

Please amend Claims 27-35, 37-42, 53-56, 58, 59 and 108 as follows:

E 1  
1 ~~27~~. (Twice Amended) [An embryonic blast] A pluripotent cell population that is pluripotent for development into primitive erythroid cells, definitive erythroid cells, macrophages, neutrophils, mast cells, T cells, endothelial cells, B cells, natural killer cells, megakaryocytes, eosinophils, and progenitors and progeny thereof, wherein said [blast] cell population [can be] is derived by culturing an embryonic stem cell population to obtain an embryoid body cell population, followed by culturing [an] said embryoid body cell population under conditions effective to produce said [embryonic blast] pluripotent cell population, said conditions comprising an embryonic blast cell medium.

[ In Claims ~~28-33~~, line 1, please delete the phrase "embryonic blast" and insert therefor, --pluripotent--.

9 ~~34~~. (Once Amended) The [embryonic blast] pluripotent cell population of Claim ~~1~~ <sup>1</sup> ~~27~~, wherein said [embryonic blast] pluripotent cell population [can be] is derived by culturing said embryoid body cell population from about 2 days to about 15 days.

E 2 cont'd. 9 ~~35~~. (Once Amended) The [embryonic blast] pluripotent cell population of Claim ~~1~~ <sup>1</sup> ~~27~~, wherein said [embryonic blast] pluripotent cell population [can be] is derived by culturing

said embryoid body cell population from about 3 days to about 6 days.

10<sup>31</sup>. (Once Amended) The [embryonic blast] pluripotent cell population of Claim <sup>1</sup>21, wherein said [embryonic blast] pluripotent cell population [can be] is cultured in a medium comprising one or more growth factors selected from the group consisting of C-kit ligand, interleukin 1, interleukin 3, interleukin 6, interleukin 11, erythropoietin, vascular endothelial growth factor, GM-CSF, G-CSF, and M-CSF, to obtain a BLAST-NEM cell population. ✓

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11<sup>38</sup>. (Once Amended) The [embryonic blast] pluripotent cell population of Claim <sup>1</sup>21, wherein said [embryonic blast] pluripotent cell population [can be] is cultured in a medium comprising one or more growth factors selected from the group consisting of interleukin 7, insulin-like growth factor 1, and C-kit ligand to obtain a BLAST-LYM cell population.

12<sup>39</sup>. (Once Amended) The [embryonic blast] pluripotent cell population of Claim <sup>1</sup>21, wherein said [embryonic blast] pluripotent cell population [can be] is cultured in medium comprising interleukin 7, insulin-like growth factor 1, and C-kit ligand, to obtain a BLAST-LYM cell population.

In Claims 40-42, line 1, please delete the phrase "embryonic blast" and insert therefor --pluripotent--.

17<sup>43</sup>. (Twice Amended) A method for obtaining a [population comprising embryonic blast cells] pluripotent cell population

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E<sup>4</sup> amended.  
that is pluripotent for development into primitive erythroid cells, definitive erythroid cells, macrophages, neutrophils, mast cells, T cells, endothelial cells, B cells, natural killer cells, megakaryocytes, eosinophils, and progenitors and progeny thereof, said method comprising culturing an embryonic stem cell population to obtain an embryoid body cell population, followed by culturing a population of embryoid body cells under conditions effective to obtain [embryonic blast cells] said pluripotent cell population, said conditions comprising an embryonic blast cell medium.

In Claims 53-55, line 2, please delete the phrase "can be" and insert therefor the term --is--.

In Claim 56, line 2, please delete the phrase "can be" and insert therefor the term --is--; and,

on line 3, before the phrase "embryonic stem cells", please insert the term --said--.

In Claim 58, please delete the phrase "can be" and insert therefor the term --is--.

32.59. (Once Amended) The method of Claim 13, wherein said method comprises:

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E<sup>5</sup> amended.  
(a) culturing [an] said embryonic stem cell population in an embryoid body cell medium from about 3 days to about 4 days to obtain said embryoid body cell population; and

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concluded.

(b) culturing said embryoid body cell population in an embryonic blast cell medium from about 3 days to about 6 days to obtain a cellular population comprising [embryonic blast cells] said pluripotent cell population.

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16108. (Once Amended) [An embryonic blast] A pluripotent cell population that is pluripotent for development into primitive erythroid cells, definitive erythroid cells, macrophages, neutrophils, mast cells, T cells, endothelial cells, B cells, natural killer cells, megakaryocytes, eosinophils, and progenitors and progeny thereof, wherein said [embryonic blast] pluripotent cell population [can be] is derived by:

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(a) culturing an embryonic stem cell population in an embryoid body cell medium comprising platelet-poor fetal bovine serum (PP-FBS) from about 3 days to about 4 days to obtain an embryoid body cell population; and

(b) culturing said embryoid body cell population in an embryonic blast cell medium comprising platelet-poor fetal bovine serum (PP-FBS) and at least one growth factor selected from the group consisting of a hematopoietic cell growth factor and an endothelial cell growth factor, from about 3 days to about 6 days to obtain a cellular population comprising [embryonic blast cells] said pluripotent cell population.

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